

Notice of Allowability	Applicati n No.	Applicant(s)	
	09/642,615	MULTER ET AL.	
	Examiner	Art Unit	
	Srirama Channavajjala	2164	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 7/22/04.
2. ☒ The allowed claim(s) is/are 1-18.
3. ☒ The drawings filed on 13 March 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

DETAILED ACTION

1. Examiner acknowledges applicant's amendment filed on 7/22/2004.
2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission of Amendment filed on 8/28/2003, paper no. # 16, Amendment filed on 12/17/2003, paper no. 19 hereby entered, a non-final Office action, mailed on 3/5/2004.
3. Claims 1,11 have been amended, paper no.19.
4. Claim 18 has been added, paper no.19.
5. Examiner acknowledges applicants' amendment filed on 3/13/2003, paper no.11.
6. Claims 11 has been amended, paper no. # 11.
7. Claims 12-17 have been added, paper no. # 11.

Drawings

8. Examiner acknowledges applicants' formal drawings filed on 3/13/2003, paper no.13.

Information Disclosure Statement

9. The information disclosure statement PTO-1449 filed on 10/29/2004 is in compliance with the provisions of 37 CFR 1.97, and has been considered, and a copy is enclosed with this Office Action.

10. The information disclosure statement PTO-1449 filed on 12/26/2000, paper no. # 4, has been considered and a copy was enclosed with this office action, paper no. # 9,

11. The information disclosure statement PTO-1449 filed on 3/13/2003, paper no. # 12 has been considered and a copy was enclosed with this office action, paper no. # 14

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Pursuant to MPEP 606.01 the **Title** is changed to read:

**-- UPDATING APPLICATION DATA INCLUDING ADDING FIRST CHANGE
LOG TO AGGREAGATE CHANGE LOG COMPRISING SUMMARY OF CHANGES --**

Allowable Subject Matter

Reasons for indicating allowable subject matter

The present application has been thoroughly reviewed, upon searching a variety of databases, the examiner submits that Claims 1-18 are allowable in light of the applicant's arguments at page 7-11, and in light of the prior art made of record.

The present invention is directed to a merging the contents of plurality of change logs into an aggregate log, more specifically creating an aggregate log, retrieving the contents of a current change log, adding the contents of the current change log to the aggregate log.

The closest prior art Birkler, WO 00/29998 is directed to optimization of change log handling, more specifically, optimize information synchronization between first and second device, where the second device stores a change counter value associated with a last synchronized entry of a change log stored at the first device. A portion of the change log containing entries occurring after a submitted change counter value is preferably transferred from the first device to the second device in predetermined order [see Abstract, page 3, 8-20, fig 2].

Prior art Bowen et al. US Patent No. 5832519 is directed to updating database values without the use of locking operations, more specifically, Bowen teaches general purpose computer is an aggregation system. The aggregation system update and read certain data values such as numeric summary data values which are updated frequently with minimal or no use of locking operations. The aggregation system processor

performs update operations by receiving the incremental updates from the general purpose computer and writing them into the log relation maintained in the memory [see Abstract, col 4, line 31-36, line 45-50].

However, Birkler, WO 00/29998, Bowen et al. US Patent No. 5832519. either singularly or in combination, fail to anticipate or render obvious the recited feature *'adding said first change log to an aggregate change log, the aggregate change log comprising a summary of changes in said added change log and any previous change logs'* in Claim 1,18, *"a merging routine for iteratively aggregating the contents of said plurality of change logs to an aggregate log"* in claim 8, *"adding said first change log to an aggregate log on the first client device"* in claim 11. These features together with the other limitations of the independent Claims are novel and non-obvious over the prior art of record. The dependent Claims 2-7,9-10,12-17 being definite, enabled by the specifications, and further limiting to the independent Claim, are also allowable.


Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Srirama Channavajjala whose telephone number is 571-272-4108. The examiner can normally be reached on Monday-Friday from 8:00 AM to 5:30 PM Eastern Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dov Popvici, can be reached on 571-272-4083. The fax phone numbers for the organization where the application or proceeding is assigned is 703/872-9306

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free)

SC
Patent Examiner.
December 10, 2004.


SRIRAMA CHANNAVAJJALA
PRIMARY EXAMINER